ABSTRACT OF THE DISCLOSURE

The present invention relates to nanofibers that produce therapeutic amounts of nitric oxide after a delay period, which allows time to install or implant the device into a patient. The nitric oxide release is thus localized to the area of the organism where NO dosing is indicated. The delay time is achieved by cospinning the NO-producing fiber with a fiber that tends to sequester the former's NO-producing functional groups. Fibers of the present invention may be incorporated into medical devices such as stents or other implantable medical devices to prevent the formation of adhesions or scarring in the area of the implant.